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APPLICATION NO.	ATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/485,421	35,421 10/05/2000		Sundarasamy Mahalingam	UPAP-0350 1903		
34136	7590	08/25/2004		EXAMINER		
COZEN O'CONNOR, P.C.				LI, QIAN JANICE		
	1900 MARKET STREET PHILADELPHIA, PA 19103-3508		ART UNIT		PAPER NUMBER	
	,			1632		
				DATE MAILED: 08/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability

Application No.	Applicant(s)		
09/485,421	MAHALINGAM ET AL.		
Examiner	Art Unit		
Q. Janice Li	1632		

	Q. Janice Li	1632	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSE or other appropriate co IGHTS. This application	ED in this application. If not includ mmunication will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>28-47</u> .			
3. \boxtimes The drawings filed on <u>2/10/00 & 2/20/02</u> are accepted by t	he Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	been received. been received in Appli	cation No	ition from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			quirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached es reason(s) why the oa	EXAMINER'S AMENDMENT or Nth or declaration is deficient.	OTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the statement sheet in the statement sheet.	son's Patent Drawing Re s Amendment / Comme	nt or in the Office action of on the drawings in the front (not the	e back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL M FOR THE DEPOSIT OF	ATERIAL must be submitted. I	Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		of Informal Patent Application (PT0 w Summary (PTO-413),	O-152)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper	No./Mail Date er's Amendment/Comment	,
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examin	er's Statement of Reasons for Allo	wance
of Biological Material	9. 🔲 Other _		

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SUPPLEMENTAL EXAMINER'S AMENDMENT

Upon further review, a supplemental examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel M. Scolnick on August 17, 2004.

The claims have been amended as follows:

Claim 28 (currently amended) A conjugated composition comprising at least one a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) consisting of amino acid sequence 17-36 of said HIV-1 Vpr protein and/or a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) consisting of amino acid sequence 59-84 of said HIV-1 Vpr protein, conjugated to a therapeutic compound, wherein said therapeutic compound is a nucleic acid molecule.

Claim 32 (currently amended) A method of delivering a therapeutic compound to the nucleus of a cell comprising the step of:

Contacting said cell with a conjugated compound, wherein said conjugated compound comprises said therapeutic compound conjugated to at least one a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) consisting of amino

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acid sequence 17-36 of said HIV-1 Vpr protein and/or a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) consisting of amino acid sequence 59-84 of said HIV-1 Vpr protein; wherein said therapeutic compound is a nucleic acid molecule, and wherein said conjugated compound is taken up by said cell and localized to the nucleus of said cell.

Claim 37 (currently amended) A conjugated composition comprising a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) comprising amino acid sequence 17-36 of said HIV-1 Vpr protein and/or a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) comprising amino acid sequence 59-84 of said HIV-1 Vpr protein, conjugated to a therapeutic compound, wherein said fragment of HIV-1 Vpr protein is less than 50 amino acids.

Claim 43 (currently amended) A method of delivering a therapeutic compound to the nucleus of a cell comprising the step of:

Contacting said cell with a conjugated compound, wherein said conjugated compound comprises said therapeutic compound conjugated to a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) comprising amino acid sequence 17-36 of said HIV-1 Vpr protein and/or a nuclear localization sequence fragment of HIV-1 Vpr protein (SEQ No: 1) comprising amino acid sequence 59-84 of said HIV-1 Vpr protein; wherein said fragment of HIV-1 Vpr protein is less than 50 amino acids, and

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wherein said conjugated compound is taken up by said cell and localized to the nucleus of said cell.

Conclusion

Claims 28-47 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Q. Janice Li** whose telephone number is 571-272-0730. The examiner can normally be reached on 9:30 am - 7 p.m., Monday through Friday, except every other Wednesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Amy Nelson** can be reached on 571-272-0804. The fax numbers for the organization where this application or proceeding is assigned are **703-872-9306**.

Any inquiry of formal matters can be directed to the patent analyst, **Dianiece Jacobs**, whose telephone number is (571) 272-0532.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Q. Janice 📐

Primary Patent Examiner

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August 17, 2004